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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/863,078	05/22/2001	Takeyoshi Ikeura	36856.801	9017	
7	7590 05/04/2005	EXAM	EXAMINER		
	BENNETT, LLP	NGUYEN,	NGUYEN, TUYEN T		
10400 Eaton P	lace		ART UNIT	PAPER NUMBER	
Suite 312				TALER NUMBER	
Fairfax, VA	22030	2832	2832		

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)	(ON)			
Office Action Summary		09/863,0	78	IKEURA ET AL.				
		Examine	•	Art Unit				
			NGUYEN	2832				
Period fo	The MAILING DATE of this communication apports.	pears on the	e cover sheet with th	e correspondence addre	} SS			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period ire to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no ev ly within the stat will apply and w e, cause the app	ent, however, may a reply but outory minimum of thirty (30) ill expire SIX (6) MONTHS f lication to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this comn DNED (35 U.S.C. § 133).	nunication.			
Status								
1)[X]	Responsive to communication(s) filed on <u>25 A</u>	April 2005						
	• • • • • • • • • • • • • • • • • • • •		on-final					
3)								
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 4-7 and 14-17 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3,8-13 and 18-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.								
Applicat	ion Papers							
9)□	The specification is objected to by the Examine	er.						
	The drawing(s) filed on is/are: a) acc		objected to by th	ne Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to by the Ex	xaminer. No	ote the attached Off	ice Action or form PTO	-152.			
Priority (under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document Certified copies of the priority document None Copies of the certified copies of the priority document All Copies of the certified copies of the priority document All Copies of the certified copies of the priority document None Copies of the certified copies of the priority document All Copies of the certified copies of the priority document None Copies of the certified copies of the priority document None Copies	ts have bee ts have bee ority documo u (PCT Rul	en received. en received in Applic ents have been rece e 17.2(a)).	cation No eived in this National St	age			
Attachmen	t(s)							
2) Notice 3) Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 4/25/2005.)	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:		52)			

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 8-13 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art of figure 5 [AAPA] in view of Watanabe et al. [JP 61-058221].

AAPA discloses a transformer [10] comprising:

- a common base member [figure 5]
- a bobbin structure [figure 5] having first and second tube shaped members [11, 141] co-axial and integral with one another and disposed on the base member, the first tube shaped member being located radially within the second tube shaped member so as to form a gap therebetween;
- a first winding [12] located in the gap between the first and second tube shaped members; and
- a second winding [15] affixed to the second tube shaped member of the bobbin structure.

AAPA discloses the instant claimed invention except for the first and second tube-shaped members being integral with the common base member and the air-core coil inserted in the gap of the bobbin and not being affixed to either of the tube shaped members.

- a bobbin structure [figure 2] including a base member [1c], a first tube shaped member

[1a] and a second tube shaped member [1b] co-axial and integral with one another and disposed

on the base member, the first tube shaped member being located radially within the second tube

shaped member so as to form a gap therebetween;

- an air-core coil [2] being inserted in the gap and not affixed to either of the tube shaped

members.

It would have been obvious to one having ordinary skilled in the art at the time the

invention was made to use the air-core coil arrangement of Watanabe et al. in AAPA for the

purpose of facilitating manufacturing.

Regarding claims 3 and 13, the specific turn ratio between the first and second windings

would have been an obvious design consideration based on the desired output voltage.

Regarding claims 10 and 20, the specific number of terminals used for each winding, or

winding portion, would have been an obvious consideration to permit tapping of specific

voltages from the transformer.

Regarding claims 8 and 18, applicant's admitted prior art of figure 5 discloses the first

and second tube-shaped members coupled together by a radially extending base member.

Regarding claims 9 and 19, applicant's admitted prior art of figure 5 discloses terminal

pins (13) extending from the base member.

Response to Arguments

Applicant's arguments with respect to claims 1-3, 8-13 and 18-20 have been considered

but are moot in view of the new ground(s) of rejection.

Application/Control Number: 09/863,078

Art Unit: 2832

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996.

The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN 19W

Tayler T. Nguyen

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